

IN THE CLAIMS:

Please amend the claims as shown in the following claim listing. The claim listing replaces all prior claim versions and claim listings in the application.

1. (Currently Amended): System for the terrestrial transmission of digital signals in accordance with the MPEG2-TS and DVB-T standard and carrying information for synchronization in accordance with the TS 101 191 standard, comprising:

N transmitters, where N is an integer greater than one, (12, 14) or transmission channels operating respectively at N different frequencies ~~F1 to FN~~, each transmitter receiving a same digital signal to send in the form of packets in accordance with the MPEG2-TS standard;[,]

N receivers ~~(22R, 24R) or receiving channels~~ operating respectively at N frequencies ~~F1 to FN~~, each receiver supplying a succession of packets in accordance with the MPEG2-TS standard;[,]

N error detection devices ~~(22E, 24E)~~ for detecting errors in the packets supplied by each receiver;[,]

N synchronization devices ~~(22S, 24S)~~ for synchronizing the packets supplied by each receiver;[,]

a device for selecting one packet among the N available packets ~~that does not contain an error or, failing that, a packet that~~ corresponds to the lowest error rate.

2. (Previously Amended) System according to claim 1, including N transmission antennas located at different positions and each receiving an output signal from one of the N transmitters.

3. (Currently Amended) System according to claim 1 including ~~one to~~ P receiving antennas, where P is an integer greater than one, which are located at different positions, a device for combining signals received by the P antennas to supply a combined signal, and a device for distributing the combined signal among the N receivers.

4. (Currently Amended) System according to claim 1, further comprising: including per transmission channel:
a device N time shifting devices associated with
respective transmitters (12D, 14D) for time shifting (T1 to TN)
a digital signal received by ~~each~~ its associated transmitter,
the time shift ~~(T1, T2)~~ being different for each transmitter;
~~transmission channel,~~ and

~~per receiving channel:~~

~~a device (22S, 24S)~~ N devices associated with
respective receivers for timewise realigning digital signals
supplied by the N receivers.

5. (Currently Amended) System according to claim 4, wherein ~~said a given~~ time shifting device ~~(12D, 14D)~~ comprises a buffer memory in which the digital signals are stored at an

instant "t", said digital signals being read at instants $(t + T_i)$ for signals applied to the transmitter of rank i among N.

6 - 8. (Cancelled)

9. (New) System for the terrestrial transmission of digital signals in accordance with the MPEG2-TS and DVB-T standard and carrying information for synchronization in accordance with the TS 101 191 standard, comprising:

N transmitters, where N is an integer greater than one, operating respectively at N different frequencies, each transmitter receiving a same digital signal to send in the form of packets in accordance with the MPEG2-TS standard and comprising a device for applying a time shift to the digital signal, the time shift being different at each transmitter;

N receivers operating respectively at N frequencies, each receiver supplying a succession of packets in accordance with the MPEG2-TS standard and comprising a device for timewise realigning digital signals; and

N error detection devices for detecting errors in the packets supplied by each receiver;

N synchronization devices for synchronizing the packets supplied by each receiver; and

a device for selecting one packet among the N available packets that corresponds to the lowest error rate;

wherein the timewise realigning device comprises a circuit for detecting the start of each megaframe, a buffer memory in which the packets are stored, beginning from the

detection of the start of each megaframe, each packet having associated therewith error information supplied by the error detection device, and a circuit for selecting one of the buffer memories so as to select a packet corresponding to the receiving channel having the lowest error rate.

10. (New) System according to claim 9, wherein said circuit for detecting the start of each megaframe comprises:
means for reading in a packet a pointer indicating the start of the following megaframe, and
means for adding in the first octet of the megaframe a ninth bit indicating the start of said megaframe.

11. (New) System for the terrestrial transmission of digital signals in accordance with the MPEG2-TS and DVB-T standard and carrying information for synchronization in accordance with the TS 101 191 standard, comprising:

N transmitters, where N is an integer greater than one, operating respectively at N different frequencies, each transmitter receiving a same digital signal to send in the form of packets in accordance with the MPEG2-TS standard;

N receivers operating respectively at N frequencies, each receiver supplying a succession of packets in accordance with the MPEG2-TS standard;

N error detection devices for detecting errors in the packets supplied by each receiver;

N synchronization devices for synchronizing the packets supplied by each receiver; and

a device for selecting one packet among the N available packets that corresponds to the lowest error rate, said device comprising means for detecting the error indicator in each packet and means for adding a ninth bit in the last octet of a packet preceding all error-containing packets, said ninth bit constituting an error indicator for a following packet.